

APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

APR 16 1981

Date of filing in State Engineer's Office.....

Returned to applicant for correction.....

Corrected application filed.....

Map filed.....

APR 16 1981 under 43552

The applicant Sunoco Energy Development Company
12700 Park Central Pl., Box 9, Suite 1500, of Dallas Texas (75251)
Street and No. or P.O. Box No. City or Town State and Zip Code No.
 hereby make application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.)

Incorporated January 2, 1975 in the State of Delaware

1. The source of the proposed appropriation is Underground Well No. 55-16
Name of stream, lake or other source.
2. The amount of water applied for is 3.25 second-feet
One second-foot equals 448.83 gals. per min.
 (a) If stored in reservoir give number of acre-feet.....acre-feet
3. The water to be used for Industrial
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.
4. If use is for:
 - (a) Irrigation (state number of acres to be irrigated).....
 - (b) Stockwater (state number and kinds of animals to be watered).....
 - (c) Other use (describe fully under "No. 12. Remarks").....
 - (d) Power:
 - (1) Horsepower developed.....
 - (2) Point of return of water to stream.....
5. The water is to be diverted from its source at the following point: NW¼ SE¼ Section 16, T24N, R37E,
M.D.B. & M., or at a point from which the Northwest corner of Section 5, T24N, R37E,
Describe as being within a 40-acre subdivision of public survey, and by course and distance to a section corner. If on unsurveyed land,
M.D.B. & M. bears N 31° 41' 18" W a distance of 15,801.2 feet
it should be stated.
6. Place of use Section 32, T25N, R37E, M.D.B. & M., Sections 4, 5, 6, 7, 8, 16, 17,
Describe by legal subdivision, if on unsurveyed land it should be so stated.
18, 19, 20, 21, T24N, R37E, M.D.B. & M., Sections 12, 13, 24, T24N, R36E, M.D.B. & M.
7. Use will begin about January 1 and end about December 31, of each year.
Month and Day Month and Day
8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) Drill well to approximately 6,000 feet,
install casing and cement back to surface to protect fresh water zones. Hot water
State manner in which water is to be diverted, i.e. diversion structure, ditches and flumes, drilled well with pump and motor, etc.
or steam will flow through pipeline to electric plant.

9. Estimated cost of works. \$500,000
10. Estimated time required to construct works. Two Years
If well completed, describe works.
11. Estimated time required to complete the application to beneficial use. Five Years
12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

This application is for a geothermal well with a production of 2.1 million gallons per day. The withdrawal will be 2352 acre feet per year; however, the high temperature water would be flashed with the net effect of 210,000 gallons per day being beneficially used and the remaining water returned to the reservoir so only 235 acre feet per year is actually used. This application is commingled with the other applications.

SUNOCO ENERGY DEVELOPMENT COMPANY
By s/Richard W. Arden

Signature, applicant or agent

Compared sb/bl bt/bc Richard W. Arden, Agent
950 Industrial Way
Sparks, Nevada (89431)

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance and that the final water right obtained under this permit will be dependent upon the amount of water actually placed to beneficial use. It is also understood that this right must allow for a reasonable lowering of the static water level. If the well is flowing, a valve must be installed and maintained to prevent waste. Accurate measurements must be kept of water placed to beneficial use. This source is located within an area designated by the State Engineer, pursuant to NRS 534.030. The State retains the right to regulate the use of the water herein granted at any and all times.

The well is to be cemented from the production levels to the surface to protect fresh water zones.

This permit is further issued subject to the condition that the power or energy generated by the beneficial use of this water or steam is subject to recapture and use within the boundaries of the State of Nevada when the need arises.

This permit is further issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes only and fresh, cold water aquifers are not to be diverted.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed 3.25 cubic feet per second, but not to exceed a consumptive use of 235 acre-feet annually.

Actual construction work shall begin on or before N/A

Proof of commencement of work shall be filed before N/A

Work must be prosecuted with reasonable diligence and be completed on or before October 29, 1982

Proof of completion of work shall be filed before November 29, 1982

Application of water to beneficial use shall be made on or before October 29, 1987

Proof of the application of water to beneficial use shall be filed on or before November 29, 1987

Map in support of proof of beneficial use shall be filed on or before

Commencement of work filed IN TESTIMONY WHEREOF, I PETER G. MORROS
Completion of work filed State Engineer of Nevada, have hereunto set my hand and the seal of
Proof of beneficial use filed my office, this 29th day of OCTOBER
Cultural map filed

Certificate No. Issued
WITHDRAWN BY DEC 10 1982
218 (Rev. 8-80)
STATE ENGINEER

A.D. 19.81.

State Engineer